INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26464

A CT ACCUMAN OF THE PROPERTY O				
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : H04Q 7/24 US CL : 370/ 310 328 331 338: 455/422 1 456 1 456 2				
US CL: 370/ 310, 328, 331, 338; 455/422.1, 456.1, 456.2 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S.: 370/ 310, 328, 331, 338; 455/422.1, 456.1, 456.2				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.
Y	US 6,580,704 A (WELLIG et al) 17 June 2003 (17.06.2003), see the entire document 1-2			1-20
.,	VIO 6 700 800 A (P) TOTAL TO A 10 A 1			
Y	US 6,529,728 A (PFEFFER et al) 04 March 2003 (04.03.2003), see the entire document			1-20
Y,E	US 6 711 148 A (MILLS) 22 Moreh 2004 (22 02 2004)			
1,2	US 6,711,148 A (HILLS) 23 March 2004 (23.03.2004)			1-20
Y,E	E WO 03/088547 (KUAN et al) 23 October 2003 (23.10.2003), see the entire document			1-20
1	7,2 03. 10. 2003 (2.2012) 23 October 2003 (23.10.2003), see the chine thousand			1-20
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Further	documents are listed in the continuation of Box C.		See notent family annay	
			See patent family annex.	
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"A" document	t defining the general state of the art which is not considered to be		principle or theory underlying the inve	ention
		"X"	document of particular relevance; the	claimed invention cannot be
"E" earlier ap	plication or patent published on or after the international filing date		considered novel or cannot be conside	red to involve an inventive step
"L" document	t which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone	
establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y"	document of particular relevance; the	claimed invention cannot be
		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		when the document is documents, such combination
				"P" document published prior to the international filing date but later than the
priority date claimed				·
Date of the actual completion of the international search		Date of	Date of mailing of the international search report	
24 June 2004 (24.06.2004)		Date of mailing of the international search report 21 JUL 2004		
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Alexandria, Virginia 22313-1450			one No. 703-305-9600	
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